

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Fumio NAGASHIMA et al.

Application No.: (Div. of 08/919,254)

Filed: (Concurrently)

Group Art Unit:

Examiner:

For: METHOD AND APPARATUS FOR OBJECT ORIENTED PROGRAMMING IN COMPONENT BUILDING, ITS STORAGE MEDIUM, USES, SUPPORTS AND OBJECT BETWEEN-NETWORK-DISPLAY

Assistant Commissioner for Patents
Washington, D.C. 20231



INFORMATION DISCLOSURE STATEMENT

In accordance with the duty of disclosure provisions of 37 CFR §1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application.

1. Enclosures accompanying this Information Disclosure Statement are:

- 1a. ☒ Form PTO-1449.
- 1b. ☐ Copies of IDS citations. (*If box not checked, see Item 6, below*)
- 1c. ☐ An English language copy of search report(s) from a counterpart foreign application or a PCT International Search Report.
- 1d. ☐ English language translation (complete or relevant portion(s)) attached to each non-English language publication.
- 1e. ☐ Explanations of Relevancy of References (ATTACHMENT 1(e), hereto) for providing a concise explanation of each non-English publication.
- 1f. ☐ List of Pending Applications (ATTACHMENT 1(f), hereto).

2. ☐ This Information Disclosure Statement is filed under 37 CFR §1.97(b):

(*Check either Item 2a or 2b or 2c*)

- 2a. ☐ before the latter of three (3) months after the U.S. patent application filing date or before the first Office Action on the merits therein; or
- 2b. ☐ before the latter of three (3) months after the continued prosecution application (CPA) filing date or before the first Office Action on the merits therein.

- 2c. ☐ with/after the filing of a Request for Continued Examination (RCE) and before the first Office Action on the merits therein.

Accordingly, no fee or § 1.97(e) Statement is required.

3. ☐ This Information Disclosure Statement is filed under 37 CFR §1.97(c) after the first Office Action on the merits, but before a Final Office Action or a Notice of Allowance.

(Check either Item 3a or 3b; Item 3b to be checked if any reference known for more than 3 months)

- 3a. ☐ The §1.97(e) Statement in Item 5 below is applicable. Accordingly, no fee is required.

- 3b. ☐ The \$240.00 fee set forth in 37 CFR §1.17(p) in accordance with 37 CFR §1.97(c) is:
☐ enclosed.
☐ to be charged to Deposit Account No. 19-3935.

4. ☐ This Information Disclosure Statement is filed under 37 CFR §1.97(d) after the Final Office Action or the Notice of Allowance, but before payment of the Issue Fee.

The § 1.97(e) Statement (Item 5 below) is applicable.

A Petition to the Commissioner is hereby made under 37 CFR §1.97(d) to request consideration of this Information Disclosure Statement. The \$130.00 fee set forth in 37 CFR §1.17(i) is:

- ☐ enclosed.
☐ to be charged to Deposit Account No. 19-3935.

5. ☐ Statement under § 1.97(e) (*applicable if Item 3a or Item 4 is checked*)

(Check either Item 5a or 5b)

- 5a. ☐ In accordance with 37 CFR §1.97(e)(1), it is stated that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. (Federal Register, Vol. 62, No. 197, page 53190, October 1997.)

- 5b. ☐ In accordance with 37 CFR §1.97(e)(2), it is stated that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known by any individual designated in §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. (Federal Register, Vol. 62, No. 197, page 53190, October 1997.)

6. ☒ This is a continuation/divisional/continuation-in-part application under 37 CFR §1.53(b).

(Check appropriate Items 6a and/or 6b)

- 6a. ☒ Copies of the publications listed on the attached Form PTO-1449 which were previously cited in prior applications Serial Nos. 08/855,986 and 08/919,254, filed on May 14, 1997 and August 28, 1997, respectively, of which this application claims priority under 35 U.S.C. §120, have been omitted pursuant to 37 CFR §1.98(d).

- 6b. ☐ Copies of the publications listed on the attached Form PTO-1449 which were not previously cited in prior application Serial No. _____, filed on _____, of which this application claims priority under 35 U.S.C. §120, are provided herewith.

7. ☐ This is a continuation/divisional application under 37 CFR §1.53(d).

(Check either Item 7a or 7b)

- 7a. ☐ The Issue Fee has not been paid.
- 7b. ☐ A Petition to Withdraw from issue under 37 CFR §1.313(b)(5) is filed concurrently herewith or has been granted. A continuation application under 37 CFR §1.53(d) after payment of the Issue Fee is proper in accordance with 37 CFR §1.53(d)(1)(ii).

8. ☐ This is a Supplemental Information Disclosure Statement.

(Check either Item 8a or 8b)

- 8a. ☐ This Supplemental Information Disclosure Statement under 37 CFR §1.97(f) supplements the Information Disclosure Statement filed on _____. A bona fide attempt was made to comply with 37 CFR §1.98, but inadvertent omissions were made. These omissions have been corrected herein. Accordingly, additional time is requested so that this Supplemental IDS can be considered as if properly filed on _____.
- 8b. ☐ This Supplemental Information Disclosure Statement is timely filed within one (1) month of the Notice under 37 CFR §1.97(i), mailed _____. (MPEP 609, Form ¶ 6.51, July 1997.)

9. ☐ In accordance with 37 CFR §1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is:

(Check appropriate Items 9a, 9b, 9c and/or 9d)

- 9a. ☐ satisfied because all non-English language publications were cited on the enclosed English language copy of the PCT International Search Report or the search report from a counterpart foreign application indicating the degree of relevance found by the foreign office. (See U.S. Patent & Trademark Office's authorization in the Federal Register, Vol. 57, No. 12, January 17, 1992, at page 2031 (Reply to Comment 68).)
- 9b. ☐ set forth in the application.
- 9c. ☐ satisfied because an English language translation (complete or relevant portion(s)) is attached to each non-English language publication.
- 9d. ☐ enclosed as Attachment 1(e), hereto.
10. No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than search report(s) from a counterpart foreign application or a PCT International Search Report, if submitted herewith). 37 CFR §§ 1.97(g) and (h).

11. The Commissioner is authorized to credit any overpayment or charge any additional fee required under 37 CFR §1.17 for this Information Disclosure Statement and/or Petition to Deposit Account No. 19-3935.

Respectfully submitted,

STAAS & HALSEY LLP

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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTORNEY DOCKET NO.

1080.1045CIPD/RAG

APPLICATION NO.

Div. of 08/919,254

LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

FIRST NAMED INVENTOR

Fumio NAGASHIMA et al.

FILING DATE

(concurrently)

GROUP ART UNIT

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA	6,028,998	02/2000	Gloudeman et al.			
	AB	5,632,034	05/97	O'Farrell			
	AC	5,926,637	07/99	Cline et al.			
	AD	5,560,014	09/96	Imamura			
	AE	5,572,731	11/96	Morel et al.			
	AF	6,071,317	06/2000	Nagel			
	AG	5,907,707	05/99	Ramalingam et al			
	AH	5,572,733	11/96	Ryu et al.			
	AI	5,586,326	12/96	Ryu et al.			
	AJ	6,077,312	02/2000	Bates et al.			
	AK	5,581,761	12/96	Radia et al.			
	AL	5,758,160	05/98	McInerney et al.			
	AM	4,809,170	02/89	Leblang et al.			
	AN	5,764,897	06/98	Khalid			
	AO	5,265,206	11/93	Shackelford et al.			
	AP	5,551,035	12/96	Arnold et al.			
	AQ	5,339,433	08/94	Frid Nielsen			
	AR	5,787,413	07/98	Kauffman et al.			
	AS	5,557,730	09/96	Frid-Nielsen			

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY DOCKET NO. 1080.1045CIPD/RAG	APPLICATION NO. Div. of 08/919,254
LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)		FIRST NAMED INVENTOR Fumio NAGASHIMA et al.	
		FILING DATE (concurrently)	GROUP ART UNIT

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AT	5,740,444	04/98	Frid-Nielson			
	AU	5,432,903	07/95	Frid-Nielson			
	AV	5,371,895	12/94	Bristol			
	AW	5,432,932	07/95	Chen et al.			
	AX	5,675,756	11/95	Benton et al.			
	AY	5,682,487	06/94	Thomson			
	AZ	5,706,455	11/95	Benton et al.			
	BA	5,751,965	03/96	Mayo et al.			
	BB	5,850,221	12/98	Macrae et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO	
	BC	2-113370	04/25/90	Japan			Abst	
	BD	2-1282750	05/16/90	Japan			Abst	
	BE	61-245280	10/31/86	Japan			Abst	

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	CA	Austin et al. "Efficient detection of all pointers and arrays access errors", SIGPLAN ACM, pp 290-301; 1994.
	CB	Edelson, "A mark and sweep collector for C++", ACM pp 51-58, August 1992.
	CC	Hayes, "Using key object opportunism to collect old objects, ACM OOPSLA, pp 33-46, May 1991.
	CD	Bensley et al., "An execution model for distributed object oriented computation", ACM OOPSLA pp. 316-322, October 1987.
	CE	Jarvinen et al., "Object oriented specification of reactive systems", IEEE, pp 63-71, 1990.

EXAMINER	DATE CONSIDERED
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

CF	Jacobson, "Object oriented development in an industrial environment", ACM OOPSLA, pp 183-191; October, 1987.
CG	Taylor et al., "An object message model for the development of integrated workstation software", ACM pp 43-52, July 1990.
CH	Durham et al., "A framework for run-time systems and its visual programming language", OOPSLA '96. ACM. Pages 406-420
CI	Ellis et al., "The Annotated C++ Reference Manual", pages 176-178 and 239-260, June 1990
CJ	D. A. Taylor, Object Oriented Information Systems Planning and Implementation, April 10, 1992.
CK	G. Booch, Object Oriented Analysis and Design, pages 473-476, 1994.
CL	J. Martin, Principles of Object Oriented Analysis and Design, page 14, October 1992.
CM	Booch et al., Software Engineering with ADA pages 242-252 and 520, August 13, 1993.
CN	Orafali et al. "The Essential Distributed Object Survival Guide" pages 429-452, 9/14/95.
CO	G. L. Moore, "The G2 Development and Deployment Environment", 1992.
CP	G. L. Kovacs, "Simulation-Scheduling System Using Hybrid Software Technology", 1994.

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